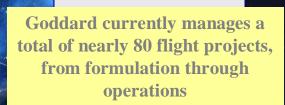


#### The Goddard Mission





The mission of the Goddard Space Flight Center is to expand knowledge of the Earth and its environment, the solar system and the universe through observations from space.

To assure that our nation maintains leadership in this endeavor, we are committed to excellence in scientific investigation, in the development and operation of space systems and in the advancement of essential technologies.



- GSFC is home to the Nation's largest organization of combined scientists and engineers dedicated to the study of the Earth, Sun, Solar System, and the Universe, from space.
- The scope of science and exploration missions developed, managed or supported include scientific instruments, small to medium spacecraft, large observatories, human related missions, missions of importance to national security, and the systems required to support their safe implementation and operation.
- GSFC's primary work falls under the Science Mission Directorate at NASA Headquarters, with our other mission related work under the Space Operations Mission Directorate and Exploration Systems.



- Major Programs under Science:
  - Earth-Sun Exploration
    - Solar and space physics and its possible effects on climate
    - Effects of clouds, precipitation, and aerosols on Earth's weather and climate
    - Understanding our global water cycle, land surface hydrology, carbon cycle, and marine and terrestrial ecosystems
  - Exploration of the Universe
    - Exploration, search for life, and answers to:
      - How do galaxies, stars, and planetary systems form and evolve
      - Which planets might harbor life
      - What powered the Big Bang
      - What happens to space, time and matter at the edge of the Black Hole

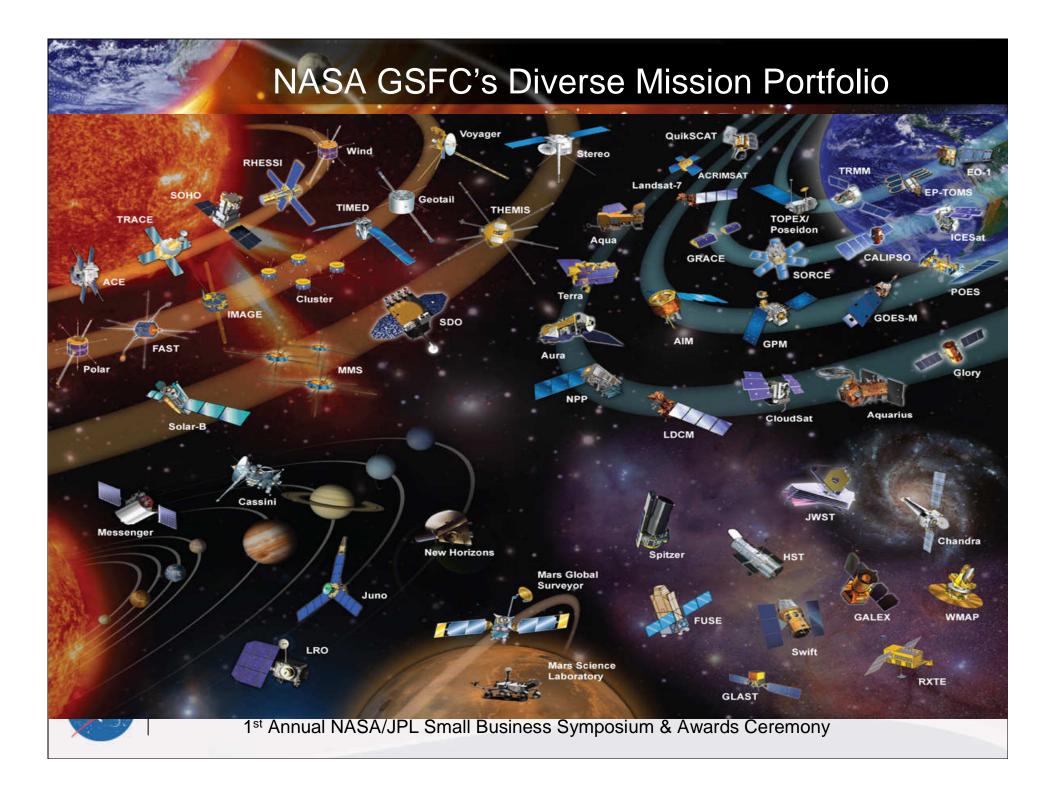


- Solar System Exploration
  - Exploration and study of the formation and evolution of planetary systems, and answers to:
    - How do planets form and evolve
    - What is the current state of the Earth, and what processes are changing it
    - Where are other habitable environments
    - What do we need to know to send explorers safely to the Moon and Mars and what should they and their robotic partners do when they get there
    - How and why does the Earth differ from other planets
- Major Programs under Exploration Systems
  - Lunar Reconnaissance Orbiter (LRO)—suite of 6 instruments



- Major Programs under Space Operations
  - Tracking and Data Relay Satellites
  - Space Communications





### Goddard's People and Capabilities

We've launched over 300 missions over a period of 48 years.

Our cadre of scientists is larger than any other institution.

GSFC has developed more planetary instruments than any other institution on Earth.

We have led space communications since the inception of human spaceflight.

We developed and we manage the largest civilian information system in the world.



#### Goddard's People and Capabilities

We have over 40 years of experience managing the development of NOAA's weather satellites.

Wallops has launched over 16,000 suborbital and orbital missions.

We have built and operated more research satellites dedicated to the study and protection of our home planet than any other institution in the world.





## **Recurring and Future Contracts**

#### **Recurring (Re-competing) Work**

#### **Support Service Contracts (to mention just a few):**

- ➤ Mechanical Systems Engineering Support
- ➤ Electrical Systems Engineering Support
- ➤ Wallops Research Range Support
- ➤ NASA Sounding Rocket Operations
- ➤ Space Communications Network Services
- ➤ Software Engineering Support
- ➤ Goddard Unified Enterprise Services & Technology
- ➤ Multi-Disciplinary Engineering & Technology
- ➤ Flight Dynamics Services
- ➤ Program Analysis & Control
- ➤ Facilities Operations Management



## **Recurring and Future Contracts**

#### **Future Contracts**

- ➤ Mechanical Systems Engineering Support
- ➤ Electrical Systems Engineering Support
- ➤ Wallops Research Range Support
- ➤ NASA Sounding Rocket Operations
- ➤ Rapid Spacecraft Development Office
- ➤ Software Engineering Support
- ➤ Goddard Unified Enterprise Services & Technology
- ➤ Multi-Disciplinary Engineering & Technology
- ➤ Flight Dynamics Services
- ➤ Missions Operations and Mission Services
- ➤ WEB Services (I3P)
- ➤ Facilities, Construction, and Engineering Services
- > Facilities Operations Management



## **Doing Business with Businesses**

- Doing business with Small Business
  - > Issues and Concerns
    - > Recertification
    - ➤ Size of our local 8(a)s vs. size of our requirements
    - ➤ Subcontracting arrangements with large businesses
- Doing business with Large Business
  - > Issue and Concerns
    - ➤ Mentor/Protégé relationships
    - ➤ Perceived lack of prime competitive opportunities
    - ➤ Meeting subcontracting goal commitments



## Center Specific Issues, Initiatives, and Highlights

- Upward trend in the number of protests
- Number of consolidated efforts
- Budget cuts that effect existing contracts



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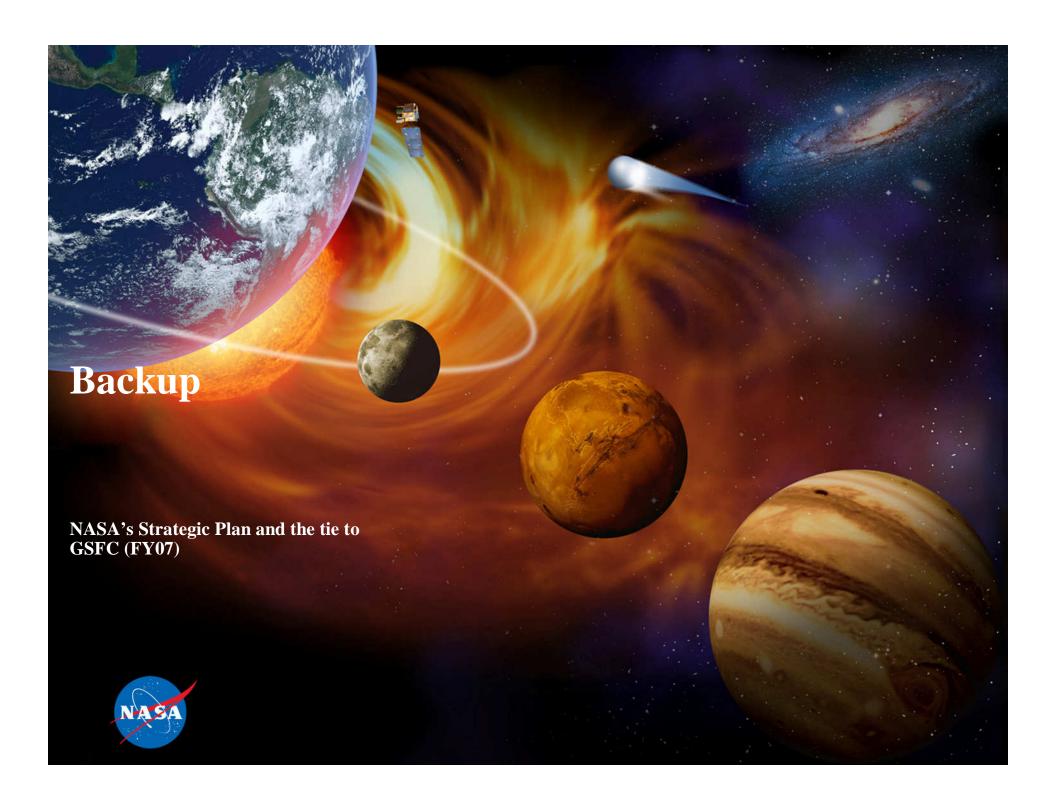
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## 2006 NASA Strategic Plan

#### **NASA Mission:**

To pioneer the future in space exploration, scientific discovery, and aeronautics research

#### **NASA Strategic Goals:**

Fly the shuttle as safely as possible until its retirement, no later than 2010.

Complete the International Space Station in a manner consistent with NASA's International Partner commitments and the needs of human exploration.

Develop a balanced overall program of science, exploration, and aeronautics consistent with the redirection of the human spaceflight program to focus on exploration.

Bring a new Crew Exploration Vehicle into service as soon as possible after shuttle retirement.

Encourage the pursuit of appropriate partnerships with the emerging commercial space sector.

Establish a lunar return program having the maximum possible utility for later missions to Mars and other destinations.

Goals 1 & 2: Fly the Shuttle as safely as possible until its retirement, not later than 2010. Complete the ISS in a manner consistent with NASA's international partner commitments and the needs of human exploration.



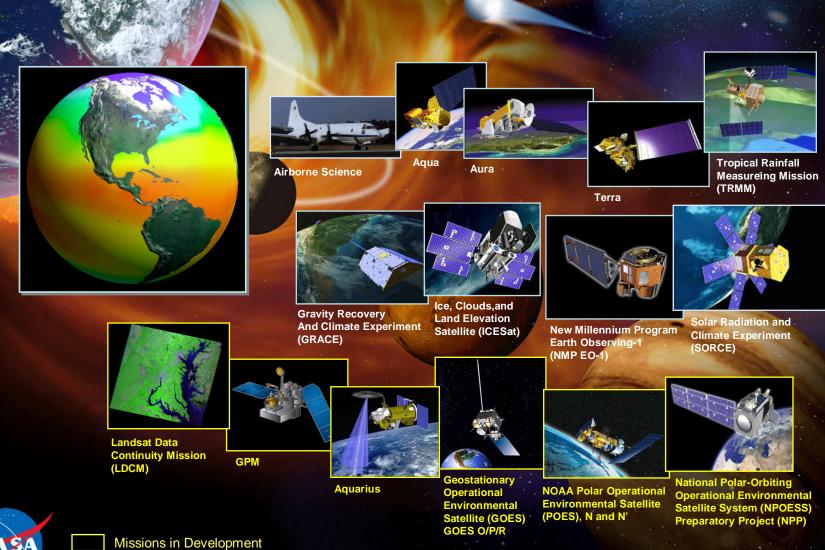
Space Shuttle



Space Network







Missions in Operation

#### Sub-goal 3B: Understand the Sun and its effects on Earth and the solar system.

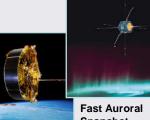




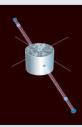
Advanced Composition **Explorer** (ACE)



Aeronomy of Ice In the Mesosphere (AIM)



Snapshot Explorer (FAST)



Geotail





Solar and Heliospheric Observatory (SOHO)

Cluster



Solar Terrestrial **Relations Observatory** (STEREO)



Space technology 5 (ST-5)



**Time History** of Events and Macroscale Interactions during **Substorms** (THEMIS)







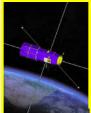
Polar

**Transition Region And Coronal Explorer** (TRACE)



Wind

**Reuven Ramaty High Energy** Solar Spectroscope Imager (RHESSI)



**Coupled Ion-Neutral Dynamics** Investigation (CINDI)



Interstellar **Boundary** Explorer (IBEX)



Magnetospheric MultiScale (MMS)



**Solar Dynamics** Observatory (SDO)





Sub-goal 3C: Advance scientific knowledge of the origin and history of the solar system, the potential for life elsewhere, and the hazards and resources present as humans explore space.





CIRS (Cassini)

Mercury Surface, Space Environment, Geochemistry and Ranging MLA (MESSENGER)

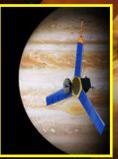
**SAM (Mars Science Laboratory)** 



Scientific Balloons



New Horizons Ralph: Visible and infrared imager/spectrometer



uno Ilux Gate Magnetometer

Flux Gate Magnetomete and Scalar Helium Magnetometer



Missions in Development
Missions in Operation

# Sub-goal 3D: Discover the origin, structure, evolution, and destiny of the universe, and search for Earth-like planets.





Far Ultraviolet Spectrographic Explorer (FUSE)



Galaxy Evolution Explorer

Hubble Space Telescope (HST)



International Gamma-Ray Astrophysics Laboratory (INTEGRAL)



Rossi X-Ray Timing Explorer (RXTE)



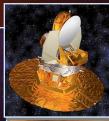
Sounding Rocket Program



Spitzer Space Telescope (IRAC)



Swift Gamma Ray Burst Explorer



Wilkinson Microwave Anisotropy Probe (WMAP)



**Constellation - X** 



Gamma ray Large Area Space Telescope (GLAST)



James Webb Space Telescope (JWST)



Laser Interferometer Space Antenna (LISA)



Widefield Infrared Survey Explorer (WISE)



Missions in Development

Missions in Operation

